



(1) EC-TYPE EXAMINATION CERTIFICATE

- (2) Equipment or protective system intended for use in potentially explosive atmospheres Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: KEMA 98ATEX4467 X
- (4) Equipment or protective system: Kotron Smart Level Transmitter Model 805-5...-.1.

 Kotron Probe Model 8..-...-...
- (5) Manufacturers: Magnetrol International N.V. and Magnetrol International Incorporated
- (6) Address: Heikensstraat 6, 9240 Zele, Belgium 5300 Belmont Road, Downers Grove, IL 60515-4499, USA
- (7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA, notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 84467.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1992 + prA1 EN 50020: 1994 EN 50284: 1997

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.
- (12) The marking of the equipment or protective system shall include the following:

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EEx ia IIC T4 or EEx ia IIC T6

Arnhem, 21 May 1999 by order of the Board of Directors of N.V. KEMA

C.M. Boschloo Certification Manager

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ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION





(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 98ATEX4467 X

(15) Description

Kotron Smart Level Transmitter Model 805-5...-1. and Kotron Probe Model 8..-...- are used for level detection.

The capacitance of the probe, in relation to the fluid level is converted into a 4 - 20 mA current signal or into a digital signal.

The maximum probe length is 6,1 m for integrated probes and 46 m for flexible cable probes.

The transmitter enclosure provides a degree of ingress protection IP 66 as per EN 60529.

Ambient temperature range:

Electrical data

(terminals + and -)

Supply and output circuit in type of protection intrinsic safety EEx ia IIC, only for connection to a certified intrinsically safe circuit, with following maximum values:

$$U_{i} = 28,6 \text{ V}$$

 $I_{i} = 140 \text{ mA}$
 $P_{i} = 1 \text{ W}$

The effective internal capacitance $C_i = 2.2 \text{ nF}$, the effective internal inductance $L_i = 37.5 \mu H$.

(16) Report

KEMA No. 84467

(17) Special conditions for safe use

- 1. Because the enclosure of the transmitter is made of aluminium alloy, the transmitter must be installed so, that even in the event of rare incidents, an ignition source due to impact or friction between the enclosure and iron/steel is excluded.
- 2. Probes with an insulating layer, used in a potentially explosive atmosphere with gas, vapour or mist of gas group IIC, may only be used for the measurement of the level of a conductive fluid.



(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 98ATEX4467 X

(18) Essential Health and Safety Requirements

Essential Heal	th and Safety Requirements not covered by standards listed at (9)
Clause	Subject
1.0.5	Marking
1.0.6 (b)	Instructions

These Essential Health and Safety Requirements are examined and positively judged. The results are laid down in the report listed at (16).

(19) Test documentation

1. Assessment report FMRC J.I. No. 3002781

			<u>signed</u>
2. Drawing No.	99-6505, rev. A (sheets 1, 3, 4, 5, 6 and 7) 99-6505, rev. A (sheet 2) 05-8042, rev. C (sheet 4) 94-6011, rev. C (sheet 2) 009-9027-002, rev. B (4 sheets)		07.01.1999 27.01.1999 27.01.1999 10.12.1998 09.12.1998
	94-6016, rev. A (2 sheets) 09-9046-001, rev. B (4 sheets) 94-6014, rev. A 09-9042-001, rev. C (3 sheets) 09-5735, rev. A 94-6015, rev. A 30-2459, rev. A 30-2222, rev. A 09-9043-001, rev. B (3 sheets)))))))	10.12.1998

3. Samples



AMENDMENT 1

to EC-Type Examination Certificate KEMA 98ATEX4467 X

Manufacturers: Magnetrol International N.V. and

Magnetrol International Incorporated

Adress: Heikensstraat 6, 9240 Zele, Belgium

5300 Belmont Road, Downers Grove, IL 60515-4499, USA

Description

In future, the model code of the Kotron Smart Level Transmitter will be Model 805-5...-A.. The Kotron Smart Level Transmitter may also be manufactured in accordance with the documentation mentioned below.

Changes concern the internal construction.

All other data remain unchanged.

Test documentation

			<u>signed</u>
Drawing No.	94-6011, rev. E (sheet 2) 94-6016, rev. C (2 sheets) 99-7169, rev. A (sheets 1, 2, 3 and 4))))	08.02.2000
	99-7169, rev. A (sheet 5)		20.03.2000
	99-7169, rev. A (sheets 6 and 7)		08.02.2000

Arnhem, 5 April 2000 By order of the Board of Directors of N.V. KEMA

L.M.J. Vries

Certification Manager



AMENDMENT 2

to EC-Type Examination Certificate KEMA 98ATEX4467 X

Manufacturers: Magnetrol International N.V. and

Magnetrol International Incorporated

Adress: Heikensstraat 6, 9240 Zele, Belgium

5300 Belmont Road, Downers Grove, IL 60515-4499, USA

Description

The Kotron Smart Level Transmitter Model 805-5....-A.. with Kotron Probe Model 8..-.... may also be manufactured in accordance with the documentation mentioned below. The changes concern the internal construction.

All other data remain unchanged.

Test documentation

		<u>signed</u>
Drawing No.	99-7169, rev. B (5 sheets)	20.03.2001
	030-2223, rev. P) 031-2809, rev. G) 094-6010, rev. G (2 sheets))	08.04.2004

Arnhem, 8 July 2004 KEMA Quality B.V.

T. Pijpker Certification Manager